

Title (en)

METHOD FOR PLASTICIZING LACTIC ACID POLYMERS

Title (de)

VERFAHREN ZUM WEICHMACHEN VON MILCHSÄUREPOLYMEREN

Title (fr)

PROCÉDÉ DE PLASTIFICATION DE POLYMÈRES D'ACIDE LACTIQUE

Publication

**EP 2256149 A1 20101201 (EN)**

Application

**EP 08718439 A 20080125**

Priority

ES 2008000038 W 20080125

Abstract (en)

Plasticization process for lactic acid polymers characterised in that it includes the grinding of the lactic acid polymers, the mixing of said ground and solid state lactic acid polymers, with mixtures of lactic acid oligomers, the subjecting of the mixture to a temperature of between 150°C and 200°C and at a pressure of between 1.4 bar and 4 bar, and the making up of the mixture, in a period of time of less than 30 minutes from the moment the lactic acid oligomers come in contact with lactic acid polymers.

IPC 8 full level

**C08J 3/18** (2006.01); **C08G 63/06** (2006.01); **C08J 5/18** (2006.01); **C08L 67/04** (2006.01)

CPC (source: EP US)

**C08J 3/18** (2013.01 - EP US); **C08L 67/04** (2013.01 - EP US); **C08J 2367/04** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US)

Cited by

WO2020008030A1; FR3083544A1; US2021277226A1; US11993705B2; WO2021148665A1; FR3106592A1; WO2021005205A1; FR3098519A1; WO2021148666A1; FR3106591A1; FR3139500A1; WO2024056824A1; WO2023001872A1; FR3125533A1; WO2020193770A1; FR3094268A1; FR3139569A1; WO2024056823A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**EP 2256149 A1 20101201**; **EP 2256149 A4 20120321**; **EP 2256149 B1 20160810**; CA 2712709 A1 20090730; CN 101970547 A 20110209; ES 2602578 T3 20170221; JP 2011510148 A 20110331; JP 5598673 B2 20141001; US 2011054099 A1 20110303; US 8084551 B2 20111227; WO 2009092825 A1 20090730

DOCDB simple family (application)

**EP 08718439 A 20080125**; CA 2712709 A 20080125; CN 200880125622 A 20080125; ES 08718439 T 20080125; ES 2008000038 W 20080125; JP 2010543529 A 20080125; US 86409308 A 20080125